

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU2005/000300

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C08L 1/08, 1/10, 1/12, 1/14, 27/04, 27/06, 27/08, 33/02, 33/08, 33/10, 33/12; C09D 101/08, 101/10, 101/12, 101/14, 127/04, 127/06, 127/08, 133/02, 133/08, 133/10, 133/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C08L 1/08, 1/10, 1/12, 1/14, 27/04, 27/06, 27/08, 33/02, 33/08, 33/10, 33/12; C09D 101/08, 101/10, 101/12, 101/14, 127/04, 127/06, 127/08, 133/02, 133/08, 133/10, 133/12; C08K 3/20, 3/10, 5/098

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DERWENT: WPAT, JAPIO; Key Words: cellulose, phthalate, surfactant, disperse, ethylene vinyl acetate, chlorinated polyolefin, solvent

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y	WO 2001/035719 A2 (EASTMAN CHEMICAL COMPANY) 25 May 2001 See page 6 lines 21-25, page 9 lines 6-30, page 12 line 32-page 14 line 13	1-10, 15, 20
Y	PAYNE, HENRY FLEMING, Organic Coating Technology, John Wiley and Sons Inc, 1954, Vol 1, ISBN 0471672866, page 240 See page 240, last paragraph	3
X	US 3953386 A (MURPHY et al) 27 April 1976 See abstract, example 11	1, 2, 6-10, 15, 20

☒ Further documents are listed in the continuation of Box C

☒ See patent family annex

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search  
15 April 2005

Date of mailing of the international search report  
23 MAY 2005

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2000/071359 A1 (HEWLETT-PACKARD COMPANY) 30 November 2000 See page 25 line 28-page 26 line 15, examples 1 and 2, claims 1, 6 and 10	1, 2, 6-10, 15, 20.
X, Y	GB 2339785 A (KNI LIMITED) 9 February 2000 See abstract, page 10 line 12, page 13 line 15, page 25 lines 17-23	1, 2, 6-10, 15, 19, 20
X	US 3959193 A (PUTMAN et al) 25 May 1976 See abstract, column 3 lines 15-25	1, 2, 6-10, 15, 20
X	US 4749564 A (FARYNIARZ et al) 7 June 1988 See column 2 lines 8-10, column 5 lines 22-29, column 3 line 23, example 2A, column 10 line 64-column 11 line 10	1, 2, 4, 6-10, 15, 20
X, Y	US 5412000 A (HELLMANN et al) 2 May 1995 See abstract, example	14, 19.
X	GB 1533652 A (THE SHOE AND ALLIED TRADES RESEARCH ASSOCIATION) 29 November 1978 See page 2 lines 16-26, examples	14
X	US 4055698 A (BEERY) 25 October 1977 See column 3 lines 5-23, column 4 line 45	14
X	Patent Abstracts of Japan. JP 61-111375 A (SANYO KOKUSAKU PULP CO LTD) 29 May 1986 See abstract	14
P, X	EP 1505129 A1 (E.I. DU PONT DE NEMOURS AND COMPANY) 9 February 2005 See abstract, example 1	14
X	US 5298552 A (BORGHI et al) 29 March 1994 See abstract, Tables 1 and 2	14

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### Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

### Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:  
See additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

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### Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

#### Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

1. Claims 1-13 and 15-20 are directed to (a) dispersions comprising a thermoplastic polymer, a phthalate ester of a C1-C6 alkylated aromatic alcohol, a surfactant, and one or more of a metal carbonate, a white metal oxide, an alkaline earth metal salt of a C9-C20 aliphatic fatty acid, a solvent, a rust inhibitor or a lower alkyl methacrylate polymer, (b) primer compositions comprising these dispersions, and (c) applications using these compositions. It is considered that the dispersion comprising a thermoplastic polymer, a phthalate ester of a C1-C6 alkylated aromatic alcohol, a surfactant, and one or more of a metal carbonate, a white metal oxide, an alkaline earth metal salt of a C9-C20 aliphatic fatty acid, a solvent, a rust inhibitor or a lower alkyl methacrylate polymer comprises a first "special technical feature".
2. Claim 14 is directed to an adhesion promoter comprising an aromatic hydrocarbon, a co-polymer of a C2-C6 alkene and a vinyl ester and a chlorinated polyolefin. It is considered that this adhesion promoter composition comprises a second special technical feature.

Since the abovementioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
WO	0135719	NONE			
US	3953386	AU	82466/75	BE	830871
		CA	1052487	CH	601385
		FI	751929	FR	2277101
		JP	51028188	NL	7507829
		PH	12452	SE	7507542
		ZA	7504214	BR	7504131
				DE	2529547
				GB	1515723
				NO	752377
				US	4011388
WO	0071359	AU	49813/00	EP	1189755
		US	6265049	HK	1042676
GB	2339785	NONE			
US	3959193	US	4113650		
US	4749564	AU	39630/85	BR	8406775
		CH	667007	CA	1247012
		ES	8601680	DK	120485
		IN	165523	FI	850578
		NZ	210059	JP	60209511
		ZA	8408750	GR	850077
				NO	850393
				US	4740370
US	5412000	AU	28391/89	DE	3800938
		JP	2003460	EP	0324497
GB	1533652	NONE			
US	4055698	AU	25997/77	CA	1092449
		FR	2355894	DE	2727801
		MX	145840	GB	1581759
				JP	53016738
JP	61111375	NONE			
EP	1505129	US	2005031792		
US	5298552	BR	9201051	CA	2064109
		JP	6025628	EP	0510378
				MX	9201354
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					